

FIELD OF THE INVENTION

This invention concerns a system for easily affixing an object to a wall so that the object is held securely in the desired position. It also enables the object to be easily removed from the wall.

BACKGROUND OF THE INVENTION

Known picture hangers in commercial production that hold a picture securely in place require some form of tool to attach or remove the picture from the wall. It is useful to be able to have a picture securely hung against a wall or other surface whereby it can be easily and quickly attached or removed from the mounting surface. This hanging system utilizes one or more tracks that are fastened to a surface for mounting the picture onto the track or tracks. This system makes use of spring action to provide this capability.

SUMMARY OF THE INVENTION

This invention combines one or more horizontal brackets or tracks fastened to a wall or other surface and one or more hanger bodies attached to a picture or object. Each hanger body is configured to provide an interfacing support means

for holding the picture onto the track. Some embodiments provide for horizontal positioning while others provide for horizontal, vertical and leveling of the picture. In addition to the supporting of the picture the hanger body has a spring means for locking the picture onto the track. Placing the object onto the track is then accomplished by placing the locking means onto the bottom of the track and compressing the spring as the picture is pushed up. When the supporting portion of the hanger goes over the top of the track it is then released and remains locked onto the track. Removal of the picture is accomplished by pushing the picture up until the supporting means is over the top of the track and letting the picture come down.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG 1A is a back elevational view of the hanging system looking away from the wall with hanger body engaging the top of the beveled bracket and the spring positioned hook engaging the bottom of the bracket.

FIG 1B is a side elevational view of the hanging system shown in FIG 1A.

FIG 2 is a side elevational view of the hanging system having a vertical screw supporting the object on the bracket and the spring positioned hook engaging the bottom of the bracket.

FIG 3 is a back elevational view of the hanging system looking away from the wall with a hanger body having two vertical screws engaging the top of the beveled bracket and the spring positioned hook engaging the bottom of the bracket.

FIG 4 is a back elevational view of the hanging system looking away from the wall with a hanger body having two vertical hooks engaging the top of the beveled bracket and the spring positioned hook engaging the bottom of the bracket.

FIG 5 is a back elevational view of the hanging system looking away from the wall with top and bottom hangers engaging top and bottom brackets.

DETAILED DESCRIPTION OF THE INVENTION

A locking picture hanging system that uses wall-mounted brackets and hanger bodies with one or more spring adjustable hooks attached to the pictures is the basis for this invention. The system allows the picture mounted on the bracket to be locked in place.

With reference to Fig's 1A & 1B, in which like numerals represent like parts Fig's 1A & 1B show hanger body 13 attached to picture frame 11 with screws 18A & 18B. The hanger body 13 has a downward extending lip 19 that sits on the top of the double beveled track 15 and allows horizontal positioning. The hanger body 13 has apertures to support and allow screw 14 to rotate freely. Screw 14 extends below the bottom of track 15 and has hook 16 slidingly engaged on it. Hook 16 is facing upward and is being forced up by spring 10 so that it engages and locks onto the bottom of track 15. Track 15 is attached to wall 12 with screws 17A & 17B. Picture 11 can be positioned horizontally along track 15 and is locked in place by hook 16.

With reference to FIG 2 the hanger body 23 is attached to picture frame 21 with screws 28. The hanger body 23 has

an outer screw 29 threadably engaged and extending onto the top of the double beveled track 25 such that the vertical position of picture 21 can be changed by turning screw 29 and horizontal positioning is also possible. The hanger body 23 has inner apertures to support and allow screw 24 to rotate freely. Screw 24 extends below the bottom of track 25 and has hook 26 slidingly engaged on it. Hook 26 is facing upward and is being forced up by spring 20 so that it engages and locks onto the bottom of track 25. Track 25 is attached to wall 22 with screws 27. Picture 21 can be positioned vertically and horizontally along track 25 and is locked in place by hook 26.

With reference to FIG 3 the hanger body 33 is attached to picture frame 31 with screws 38A & 38B. The hanger body 33 has two outer screws 39A & 39B threadably engaged and extending onto the top of the double beveled track 35 such that the vertical position, and levelness of picture 31 can be changed by turning screw 39A & 39B, and horizontal positioning is also possible. The hanger body 33 has inner apertures to support and allow screw 34 to rotate freely. Screw 34 extends below the bottom of track 35 and has hook 36 slidingly engaged on it. Hook 36 is facing

upward and is being forced up by spring 30 so that it engages and locks onto the bottom of track 35. Track 35 is attached to wall 32 with screws 37. Picture 31 can be positioned vertically and horizontally along track 35 and is locked in place by hook 36.

Figure 4 shows the hanger body 43 attached to picture frame 41 with screws 48A & 48B. The hanger body 43 has apertures to support and allow screws 44A, 44B, & 44C to rotate freely. Screws 44A & 44C have lock-nuts 49A & 49B where they exit the bottom of hanger body 43 and downwardly facing hooks 46A & 46C threadably engaged on them. Hooks 46A & 46A go over track 45 and provide leveling, and vertical and horizontal positioning of picture frame 41. Screw 46B extends below the bottom of track 45 and has upward facing hook 46B slidingly engaged on it. Hook 46B is facing upward and is being forced up by spring 40 so that it engages and locks onto the bottom of track 45. Track 45 is attached to wall 42 with screws 47A & 47B. Picture 41 can be positioned vertically and horizontally along track 45 and is locked in place by hook 46.

FIG 5 shows the back of picture frame 51 with a top single screw and spring hook hanger assembly 52T engaging top track 55T, and bottom double screw hook 53 engaging track 55B. Hanger 53 supports, levels, and positions picture 51 on track 55B. Spring action on single screw hanger 52T locks picture 51 onto the two tracks 55T & 55B.

While the invention has been described above with respect to certain embodiments thereof, it will be appreciated that variations and modifications may be made without departing from the spirit and scope of the invention.